

Fig.1

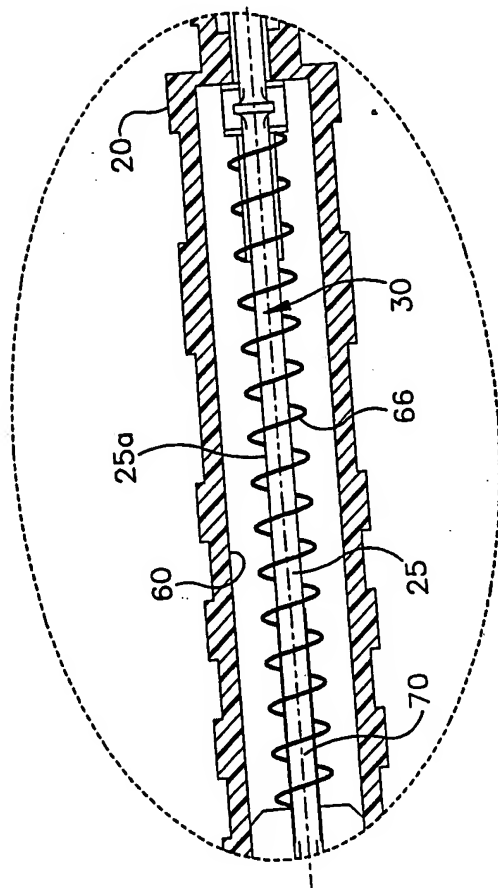


Fig.4

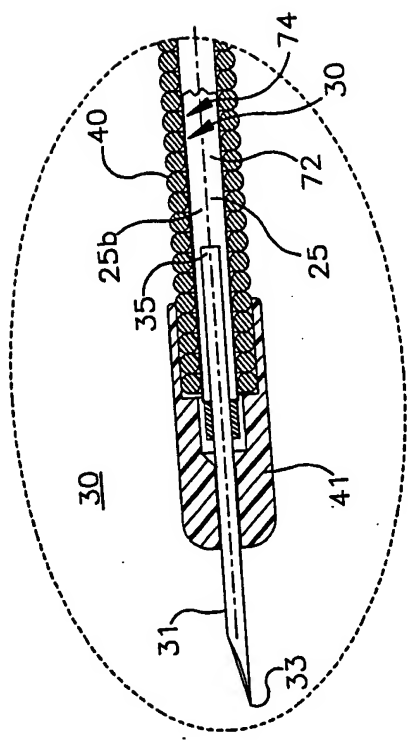


Fig.5

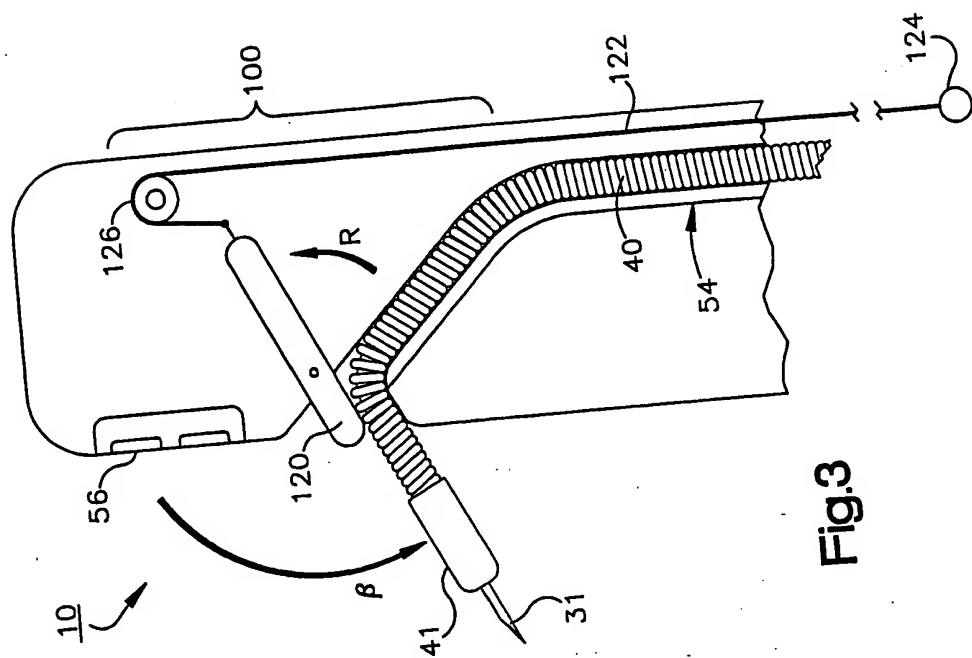


Fig.3

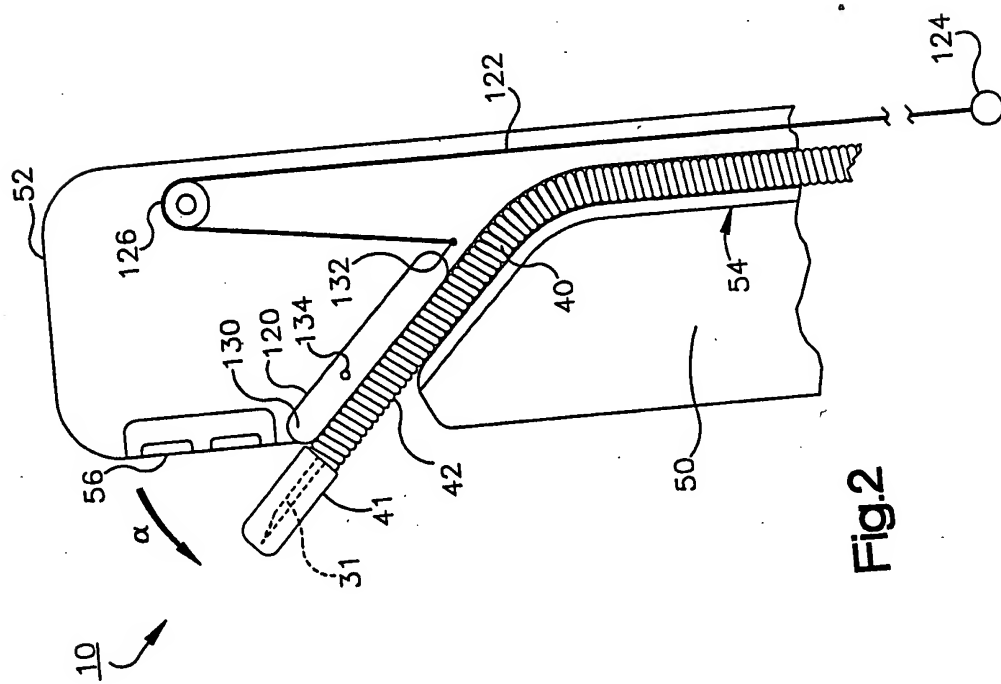
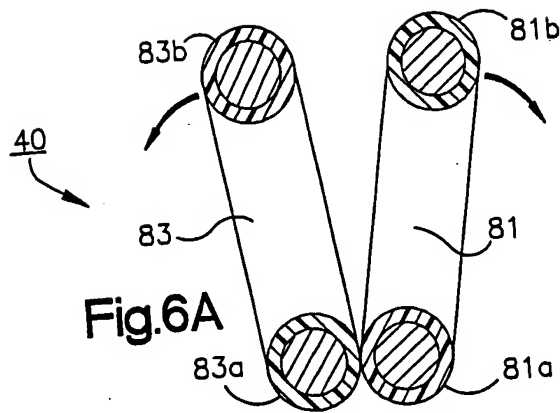
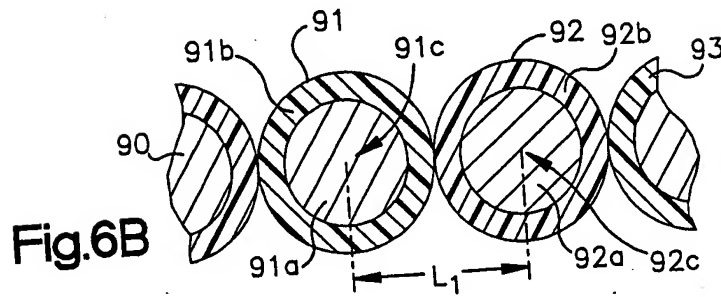


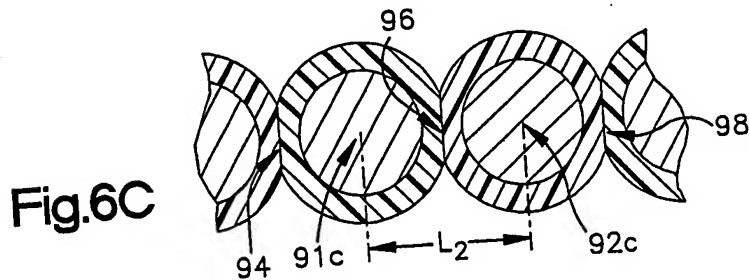
Fig.2



**Fig. 6A**



**Fig. 6B**



**Fig. 6C**

SCOPE STYLE A				SCOPE STYLE B			
OEM NEEDLE MODEL	ELEVATOR ARM POSITION			ELEVATOR ARM POSITION			
	OPEN	HALF	FULL	OPEN	HALF	FULL	
1	YES	NO	NO	NO	NO	NO	
2	YES	YES	NO	NO	NO	NO	
3	YES	YES	NO	NO	NO	NO	
4	YES	YES	NO	NO	NO	NO	
5	YES	YES	YES	YES	YES	NO	

NOTE: Yes or No entry indicative of whether needle passed through scope to distal end

**Fig. 7**

SCOPE STYLE A				SCOPE STYLE B			
ELEVATOR ARM POSITION				ELEVATOR ARM POSITION			
OEM NEEDLE MODEL	OPEN	HALF	FULL	OPEN	HALF	FULL	
1	YES,z	YES,x,z	NO	YES,x	NO,x	NO,x	
2	YES,z	YES,z	NO	YES,x,z	NO,x	NO,x	
3	YES,z	YES,z	NO	YES,x,z	NO,x	NO,x	
4	YES,z	YES,z	NO	YES,x,z	NO,x	NO,x	
5	YES,z	YES,z	YES,z	YES,z	YES,z	YES,x,z	

NOTE: Yes or No entry indicative of whether needle deployed out of the distal end of the scope  
 x—indicates that deployment occurred only after arm and/or scope position was relaxed  
 z—indicates flow of chemical agent out needle was confirmed

Fig.8

NEEDLE KINK ANALYSIS		
OEM NEEDLE	FORCE TO KINK(grams)	
	@ 2"	@ 6"
1	309g	87g
2	320g	96g
3	330g	101g
4	300g	83g
5	900g	594g

Fig.9

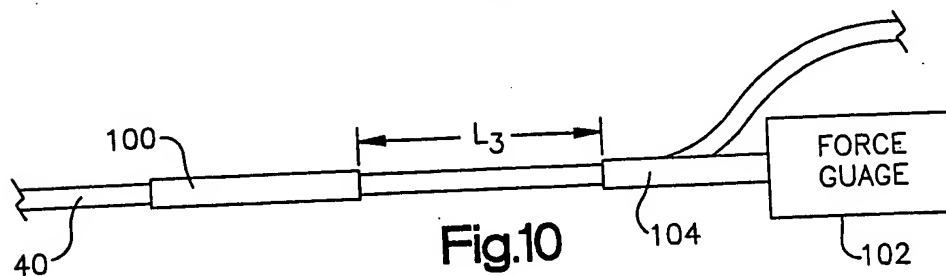


Fig.10